

\hat{r}_{ij}

Multilayer MLP

 $d_i^\ell + u_i$

review-level interactive gating network

word-level attention network

CNN



word-level attention network

CNN



word-level attention network

CNN



user reviews

 $v_j + d_j^\ell$

review-level interactive gating network

word-level attention network

CNN



word-level attention network

CNN



word-level attention network

CNN



item reviews

 $[u_i; v_j]$